

FOLIO

UNIVERSITY
OF ALBERTA

EDMONTON

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University launches \$144.65 million campaign

Community phase of campaign begins

An 11-day countdown to the launch of the largest fund-raising campaign in the University's history has begun.

The campaign launch will be held Wednesday, April 2, 1997 at the Citadel Theatre. "We believe the university is at the heart of Alberta, and our choice of a venue in the heart of downtown reflects that," says President Rod Fraser. "We're inviting the community to join us in achieving the simple goal of recruiting the best and brightest students and staff to the University of Alberta." To do that, he says, will require \$144.65 million—the campaign goal—and one of the best investments Alberta can make.

"I often bring up the simple saying, 'If you want a return in one year, plant corn, in five years, plant a tree. If you want a return for each year over the next hundred years, invest in education,'" he says.

Alumni and U of A supporters from around the world will speak at the launch—many via video and Internet connections. Fraser says the enthusiastic participation of so many demonstrates strong community support. "They're speaking in support of an investment in our intellectual resources—the greatest resource we have," he says.

Terry Flannigan, executive director, external affairs, says sponsorship by TELUS Corporation for the launch has helped ensure an exciting program. "There are no speeches or long presentations," he promises. "It's a dynamic, entertaining celebration of the exciting new direction the University of Alberta is taking."

"Our University people have gone above and beyond by contributing to our internal campaign, making it the most successful of any in the country," says Flannigan. "Now we want to bring in our community partners and will officially do so with the launch."

Faculty and staff are encouraged to call with names of potential donors they would like to see attend this celebration. If you have anyone to suggest, please call Merle Martin, 492-2219 (e-mail: merle.martin@ualberta.ca).

UNIVERSITY
OF ALBERTA
CAMPAIGN



Acting Dean of Student Services Burton Smith ties together balloons representing the variety of services for students at the U of A. Smith was the first dean of Student Services in 1977. Assisting him is Terry Krissie, a Student Services employee for over 20 years.

Students get one-stop shopping

Students looking for help, whether it's academic support, career advice, counselling or financial aid information, need look no farther than the second floor of the Student Union Building. The official consolidation of services once spread across campus was celebrated Monday, March 17 at a "Ribbon of Welcome" celebration. Services housed in the new cen-

tral location include the Office of the Dean, the Academic Support Centre, Career and Placement Services, Native Student Services, the Sexual Assault Centre, Services for Students with Disabilities, Student Counselling Services, the Student Financial Aid and Information Centre and the University Health Centre. ■

\$1.75 million to U of A researchers

By Bert Murray

The largest US philanthropy, the Howard Hughes Medical Institute (HHMI), has awarded 1.75 million to support the work of four U of A researchers:

■ Dr. Chris Bleackley, biochemistry, was awarded a research grant to investigate cytotoxic T-cells and their work in the immune system. One of the areas being investigated is the problem of rejection in transplant operations. The study of these cells is particularly important in autoimmune disorders since they play an important protective role against viruses and in the destruction of tumors. A better method of treatment may result from this research into defence mechanisms employed by diseases and viruses.

■ Dr. Tim Mosmann, medical microbiology and immunology, received his HHMI award for research into the immune system. His work involves cytokines which regulate immune responses within the body. The T-cell subsets, which he and his colleagues discovered, decide between

two immune system responses, by producing different sets of cytokines. Using this information, many scientists are working to direct the immune system's choices into the appropriate response, leading to therapies for infectious diseases and autoimmune reactions. Mosmann's current research is finding that the immune system responds in more than two ways. He is finding additional cytokine patterns and different regulatory pathways, and also determining factors that influence the immune system's choices. One of the areas of investigation is the way the maternal immune system manages the conflicting goals of attacking and destroying foreign antigens while nurturing the fetus' foreign antigens.

■ Dr. Rick Rachubinski, anatomy and cell biology, received the HHMI award to study peroxisome assembly. Peroxisomes are essential cell structures important for lipid metabolism. Genetic disorders such as Zellweger syndrome in which

WHAT'S INSIDE

Home care not always best

Dr. Norah Keating's research suggests society pays later for today's cost savings with home care.

Employment inequity remains

The four groups targeted for equity employment have been hit hardest by U of A cuts.

Forest industry makes \$500,000 gift

George Richards, CEO of Weldwood, a major Canadian forest products company, dropped in on campus March 20 and left a welcome \$500,000 gift behind.

Irish poet tries U of A retreat

Dr. Bert Almon, creative writing professor, introduces a most welcome addition to the student body, Michael McCarthy.

Students' Union elects new slate

The University of Alberta Students' Union has a new slate of officers following a spirited campaign and election. The new Student Union executive includes the following:

- President Stephen Curran, fourth-year political science student and former representative to the Board of Governors;
- Vice-President Academic Seamus Murphy, second-year political science;
- Vice-President Finance Garth Bishop, fourth-year business;
- Vice-President Student Life Stewart McDonough, fourth-year political science;
- Vice-President External Heather Taylor, fourth-year native studies;
- Undergraduate Representative to the Board of Governors Sue Flynn, fourth-year business.

peroxisomes fail to assemble are lethal. He has constructed peroxisome assembly mutants in yeast that mimic Zellweger syndrome. Identification of the genes that re-establish peroxisomic assembly in yeast will be used to identify the corresponding human genes which will then be introduced into various Zellweger cell lines in an attempt to remedy the condition.

■ Dr. Randy Read, medical microbiology and immunology, was awarded his grant to study structures of important proteins involved in diseases. The toxin produced by e-coli that causes hamburger disease might be the target of improved remedies through this research.

The HHMI is a medical research organization which supports 164 international research scholars in 19 countries at 62 universities and academic medical centres. Its complementary grants program has awarded more than \$600 million since 1988 to support biomedical researchers outside the US. ■

Home care not always the best care

What governments save today, may cost us tomorrow

By Judy Goldsand

Dr. Norah Keating's research challenges the assumption that family members are the best people to take care of frail seniors. Keating and her colleagues contend that care for seniors provided by family members may not be better, or less expensive, for society in the long term.

Keating and her colleagues are involved in several related studies focused on finding the best options for seniors needing care. "One main objective is to better understand what family members actually do for relatives and at what cost to everyone concerned," says Keating. "We want to answer questions such as: How much care are families giving? Who in the family provides the care? What is the value of the care provided? For whom is it better?"

"It's easy to advocate taking money out of the health care system and say families will do more," she says. "But the costs to society are not necessarily less. It might initially look like a good deal for the public purse, but it may just be postponing the costs." Costs to society may include child-care expenses for a caregiver and a loss of income or pension if the caregiver needs to give up paid work. "The last thing we want to do is set up the next generation of women to be poor and dependent in their old age," she says.

A recent study in the US found that care for Alzheimer's patients at home or in hospital costs about the same - \$47,000 a year. Keating's research is seeking comparable Canadian statistics for a variety of continuing-care situations.

Keating observes that someone doing a great deal of hands-on care often doesn't have time for the emotional support that families do best. "It's the difference between caring for someone and caring about

someone," she says. "We are finding that the more caring for people have to do, the less time they have for caring about."

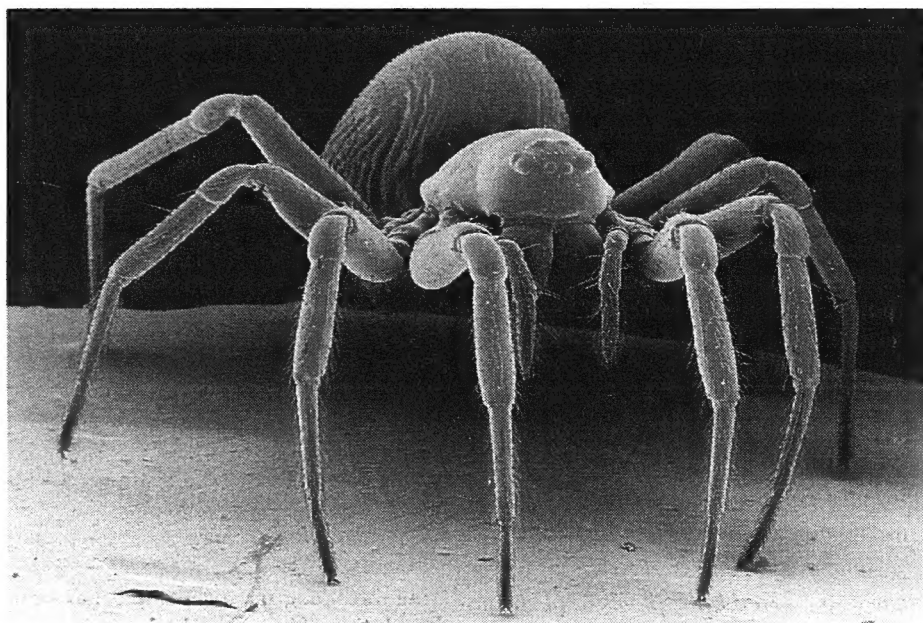
Another assumption challenged by Keating's research is that seniors in long-term care situations are "patients." They should be regarded as people who are clients of a service, and who have choices, she says. In a related research project, the objective is to determine what is involved in moving from a medical, patient-ori-

ented care model to one that's more socially-oriented and client-centred.

Keating is realistic about the impact of her research findings on the development of new government policies. "The goal of reducing public sector funding of services is a powerful driver," she says. "But I'm hopeful that we can give policy makers some insight into the best kinds of connections between the community, care givers, seniors and family members." ■

Up close and personal 167 researchers rely on technician for a good look at their work

By Lee Elliott



Common spider

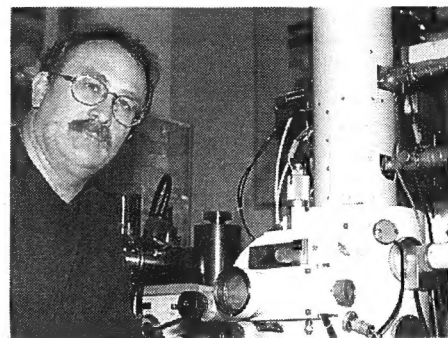
George Braybrook

What George Braybrook sees when he looks in his microscope startles him, "all the time," he says. "It's always awesome."

Braybrook is the chief scanning electron microscope (SEM) technician for the Department of Earth and Atmospheric Sciences and has just been named Outstanding Technician of the year by the U of A Chapter of Sigma XI, the Research Society.

The microscope he uses produces micrographs—closeup images of incredible detail, the type that make you afraid of a housefly. Braybrook produces work for 167 researchers on campus from the Faculties of Science, Renewable Resources, Medicine and Engineering and receives requests from across North America. He has also written a number of research and technical articles on scanning microscopy.

It's this excellence in a growing field that led Dr. Brian Jones, department chair, to nominate Braybrook for the award. "The quality of his work, as measured by the output from the SEM is, in my opinion, the best in the world," he says. In his nomination, Jones says, "Many of the results which our researchers now take for granted re-



George Braybrook

Michael Robb

sulted from George's innovative ideas that he coupled with his own initiative to make them operational." Those innovations include instant images via a laser printer, a photographic printer or CD-ROM. "I know of no other SEM lab where you can gain an instant, high-quality laser print of the image that you have been looking at on the SEM screen," says Jones.

Dr. Douglas Craig, a biology professor, also recommended Braybrook for the award. "It is such people who provide faculty members with superb expertise that allows significant scientific advances to be made," said Craig, "and George has been involved in his share of these." ■

New Folio editor appointed

Lee Elliott has been appointed managing editor of Folio. Elliott comes to the U of A, from Concordia University College where she was Public Affairs Director. Prior to that she worked in the communications department at the Alberta Teachers' Association and as editor of the Lloydminster Meridian Booster.

Elliott says she's excited about the challenges of her new position. "I hope Folio will become a lively forum for discussion," she says. "I encourage everyone in the University community to call and



Lee Elliott

tell me what they'd like to see in Folio. If it's not informative, interesting and exciting, I want to know about it." She can be reached by calling 492-0441, faxing 492-2997 or by e-mailing lee.elliott@ualberta.ca. ■

CURRENTS

SIX DEGREES OF SEPARATION AT THE TIMMS

A hit in both film and Broadway theatre, *Six Degrees of Separation*, comes to Studio Theatre, March 27 to April 5 in the Timms Centre for the Arts. The production is directed by U of A alumnus Tom Wood (BFA '72), who is the 1997 Mary Mooney Distinguished Visiting Artist.

Six Degrees of Separation is a tragicomedy about a clever opportunist who bursts into the lives and homes of three very rich New York families. The play creates a searing comment on race, family and class in our power-driven, money-hungry times.

BOARD BRIEFS

Performance measures and day care discussed

HOW'S THE U OF A DOING?

Vice-President (Academic) Doug Owrarn suggested performance indicators that may help the Board of Governors determine how the U of A is progressing. The indicators are based on four principles: relevance, symmetry, balance and clarity.

At the Board's regular meeting March 7, Owrarn suggested measuring the following: student quality, geographic source of students, program quality, instructional satisfaction, relevance of degree to employment, 3M teaching awards, overall research funding, federal granting council funding, graduate student enrolment and alumni support.

Board member Eric Newell suggested revenue from inventions might be a good addition to the list. The Board is expected to ratify the measures at its May meeting.

DEVELOP DAY CARE POLICY, STUDENT URGES

Now that the University has decided to relocate the Michener Park day care to the Aberhart Centre, it's time to take the next step and develop policy to coordinate day-care services, says Board student representative Stephen Curran.

Curran said the policy is integrally tied to two of the University's strategic initiatives: recruiting faculty and recruiting students. "This will affect the quality of our institution."

Board Chair John Ferguson said he would make that commitment. Owrarn added that his office would be involved in the development of that policy.

NEGOTIATIONS GETTING UNDERWAY

The Board and the Non-Academic Staff Association will meet in the near future to commence contract negotiations, said David Foy, chair of the Board's Human Resources and Compensation Committee.

IN BRIEF...

- It's time the University looked for partners to take advantage of the Federal Government's new Centre of Innovation initiative, said Acting Vice-President (Research and External Affairs) Roger Smith;
- Parking rates will not increase this year and residence rates will increase by about 1.72 percent;
- It's expected the 1996/97 budget will be balanced, reported Vice-President (Finance and Administration) Glenn Harris; and,
- The Annual General Meeting will be held this year to coincide with the Alumni reunion week in October.

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Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Because of the Easter weekend, the deadline for the April 4 edition of Folio is Thursday March 27, 1997.

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University
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Alberta

1997 J. Gordin Kaplan Awards for Excellence in Research

NORMAN DOVICH, CHEMISTRY



Michael Robb

EDUCATION:

- PhD, University of Utah, Physical-Analytical Chemistry, 1980
- BSc, Northern Illinois University, Chemistry and Applied Mathematics, 1976

RESEARCH:

Dr. Norman Dovichi pioneered and perfected methods of chemical separation and detection to the point where single molecules can be detected. His research has not only had an impact on analytical chemistry, but on the biological and medical sciences. His discipline is eclectic, combining electronics, optics, solid state physics and other technologies with chemistry.

During the last few years, he and his team have contributed to the advance of DNA sequencing technology. More recently, Dovichi has invented a multiple capillary biochemical analyzer. The device has great potential in the analysis of DNA

and other biological substances; it is particularly important to the Human Genome Project.

IMPORTANT PUBLICATIONS (COAUTHOR):

"Studies on single alkaline phosphatase molecules: reaction rate and activation energy of a reaction catalyzed by a single molecule and the effect of thermal denaturation—the death of an enzyme." *Journal of the American Chemical Society*, 1996.

"Single-molecule detection in capillary electrophoresis: molecular shot noise as a fundamental limit to chemical analysis." *Analytical Chemistry*, 1996.

TEACHING:

An articulate and dynamic speaker, Dovichi has a remarkable ability to explain even the most complex ideas and processes to people who are not experts in the field of chemistry. People truly appreciate and understand what he does. Students often laud his clarity.

AWARDS:

- Outstanding Leadership in Alberta Technology Award, ASTech, 1996
- Chemical Instrumentation Award, Analytical Division American Chemical Society, 1996
- EWR Steacie Memorial Fellowship, NSERC, 1992/94

WHAT OTHERS SAY ABOUT DOVICH:

"More recently he has shifted attention to capillary electrophoresis and DNA sequencing. He is a major player, commanding respect and attention. His papers in this area are in the 'must read' category for hundreds of analytical chemists and biochemists."—Fred Lytle, professor of chemistry, Purdue University.

LINDA FEDIGAN, ANTHROPOLOGY



Michael Robb

field practice in North American primatology.

Over the past 15 years, Fedigan has pursued an interest in the interrelationship of a researcher's gender and the practice of science, exploring questions such as: To what extent does training in scientific objectivity override gender socialization? Does the female scientist ask different questions than her male counterpart? What impact does the influx of women in some disciplines have on the disciplines themselves?

IMPORTANT PUBLICATIONS:

- *Primate Paradigm: Sex roles and Social Bonds* (second edition), 1992
- *The Monkeys of Arashiyama: 35 Years of Research in Japan and the West*, 1991, with P.J. Asquith
- "The Changing role of women in models of human evolution." *Annual Reviews of Anthropology*, 1986

TEACHING:

Fedigan has consistently ranked as one of the anthropology department's best teachers. She has an outstanding record as a graduate supervisor and since 1979 has supervised six PhD dissertations, 15 MA theses and seven honors theses.

AWARDS:

- McCalla Professorship, 1991-92
- Distinguished Visitor, Simon Fraser University, 1984
- Elizabeth Laird Lecturer, Memorial University, 1983

WHAT OTHER SAY ABOUT FEDIGAN:

"Her research has been at the forefront of two separate areas of study: gender issues in human and nonhuman primate behaviour and primate ecology. She has been instrumental in shaping the theoretical basis of both disciplines."—Kenneth Glander, Department of Biological Anthropology and Anatomy, Duke University.

Employment inequity remains

Cuts hit women, aboriginals, persons with disabilities and visible minorities hardest

By Lee Elliott

More employment doors have closed than opened at the U of A for women, aboriginal people, persons with disabilities and members of visible minorities, according to the second annual report on *Opening Doors: A Plan for Employment Equity at the University of Alberta*.

The Office of Human Rights reports a decline in all four of the designated employment equity groups since 1991. There are 21.7 per cent fewer females in the U of A workforce, 12.5 per cent fewer aboriginal people, 39.5 per cent fewer people with disabilities and 25.4 per cent fewer members of visible minorities.

These numbers are a concern, says Fran Trehearne, director of the Office of Human Rights, especially when the workforce was not representative to begin with according to guidelines established by the Federal Contractors Program (FCP). That same program recently approved the U of A in its regular compliance review, but asked the University to establish a special measures program to boost, in particular, the numbers of aboriginal employees and employees with disabilities. Compliance with the FCP means the University can continue to bid on federal government research contracts which have totalled approximately \$2.5 million a year.

The U of A workforce has declined in general due to cuts in government grants and the resulting early retirements, layoffs

and privatization of some services, says Trehearne. However, the designated employment equity groups were hit hardest.

Part of this can be explained by the existence of employment ghettos, he says. Traditionally in the workforce, there are more women working in clerical, semi-skilled and manual labour jobs. Clerical positions at the U of A were hit harder by layoffs in the last few years and many semi-skilled and manual jobs were privatized.

"We're not where we'd hoped to be by this time," says Trehearne, "but we're committed to equitable employment for all of the designated groups. We'll continue working."

Faculty hires will provide the greatest opportunity to increase the numbers of employees in designated groups, as one-third of the positions will turn over within the next five years. Collective agreements for support staff stipulate that laid-off employees be considered first for positions that open, which limits the number of positions open to external applicants including members of the designated groups.

Indira Haripersad, a member of the Employment Equity Committee, says she too is concerned with the lack of progress since *Opening Doors* was released. "It's too soon to say that those measures contained in *Opening Doors* don't work or they haven't been successful because they haven't followed through on them. For

that reason, I'm hesitant to suggest alternatives. I guess what I'm looking for is commitment and follow through on the written word," she says. "I think that we can throw up barriers and roadblocks ... and use those as an excuse not to act."

Another committee member, Art Beaver, director of Native Student Services, says, "My first reaction is that while this has happened and that's the reality of the situation, I'm really encouraged that senior administration at the University is committed to providing an environment that is going to attract both aboriginal students and create a place for aboriginal scholars."

Aboriginal Student Services can suggest strategies for faculties, says Beaver, and aboriginal employment agencies exist. Beaver says he's also been working with the University to employ an aboriginal recruiter. "A recruiter of aboriginal descent is an absolute must ... also what is absolutely necessary is to have a development officer who is of aboriginal descent."

Beaver just returned from an international conference on native student retention at Arizona State University and says that, "we at the U of A—while it's not good—are still probably one of the leaders in student retention. In order to hang on to that space we have a real opportunity." ■

NOMINATIONS FOR 3M TEACHING FELLOWSHIPS SOUGHT

The University of Alberta has received 16 awards during the 11-year existence of the national 3M Teaching Fellowships Program. In conjunction with the start of the 1997 competition, Bente Roed, director, University Teaching Services (UTS), says, "We have many other outstanding instructors who warrant identification and nomination."

The Fellowships are awarded by the Society for Teaching and Learning in Higher Education and 3M Canada Inc. Any individual currently teaching at a Canadian university (regardless of discipline or level of appointment) is eligible.

An exclusive three-day (November 1997), all expenses paid, retreat at the Chateau Montebello is the main component of the award.

Up to 10 awards are given annually. Nomination forms are available from UTS, 215 Central Academic Building, telephone 492-2826. Dossiers are to reach the Society for Teaching and Learning in Higher Education, by May 16, 1997, but if a letter from the Vice-President (Academic) is required, the nomination package must reach UTS by May 1.

Easing the student experience

University to simplify calendar and beef up student orientation

By Michael Robb

Students who may leave the University for financial or personal reasons need more help than they are getting, says Dr. Anne Marie Decore, associate vice-president (academic).

Some of these people can be saved, Decore told the 13th annual student advisors' conference last week. Citing a survey done in the early '90s, Decore notes about 2,200 undergraduates do not return in a given year. Of those, however, about 1,000 return within three or four years. That's a terrible waste, she said. People's lives are put on hold and financial investments by the students and the institution are wasted.

Students who simply fail aren't as big a concern, she said. Sometimes it ends up being a fantastic learning experience for them; eventually they return much more focused on their studies.

She outlined three initiatives aimed at improving student life: the new teaching and learning committee is developing a first-year experience course to be available on a voluntary basis; the student calendar is being rewritten in plain language and information organized more clearly; and student orientation services in the fall will be expanded.

LeVonn Holland, orientation coordinator, said student orientation, Sept. 1 and 2, will include sessions on budgeting, computer skills and study skills, among others. "We want to encourage students to get to know their academic advisors and get involved in student groups. They will be more likely to avoid personal and aca-

ademic problems if they develop an early connection with the U of A," Holland said.

Existing student services are a patchwork quilt, said Sean Andrew, manager of student services for the Students' Union. The University has taken an incremental approach and, as a result, there are areas of excellence and areas that need improvement. And it keeps changing, he said. Students are challenged to know the whole host of services.

Students are not always 100 per cent confident of information they get across the counter, added Jo-Anne Bishop, director of the Student Ombudservice. That's a real risk for them. It is unreasonable to hold students solely accountable for everything they need to know, she said. Even though "it's in the calendar," students still need help from time to time. ■

What the students say

"Applying the rules universally does not always mean applying them fairly."

Jo-Anne Bishop, Student Ombudservice

"Students are experts in being students and can provide help more effectively to other students in some circumstances."

Teddi Allan, Services for Students with Disabilities

"Don't use voice mail. When you're in a struggle and life's tough, the last thing you need to hear is voice mail."

Brenda Jones, Native Student Services

Forest industry leader makes \$500,000 gift

Educating workforce a good investment, says Weldwood

By Judy Goldsand

George R. Richards, Weldwood of Canada's Chairman of the Board, President and CEO, on March 20 presented a gift of \$500,000 to the University of Alberta in support of the University's major fundraising campaign which officially kicks off April 2. Richards was in Edmonton to deliver the 38th lecture of the U of A's Forest Industry Lecture Series, a series which has been sponsored by forestry related industries and consulting companies in Alberta for over 20 years. Richard's talk was entitled, *Managing Change - Strategies for Future Challenges in the Forest Industry*.

In making the presentation, Richards said the gift reflects Weldwood's interest in contributing to better education for all Canadians. "Helping to ensure that Alberta continues to have the best educated workforce in the country is an investment," he said. "Supporting university education in turn helps Weldwood and others in the industry meet the needs of the global economy."

Although Weldwood has been an ongoing supporter of the U of A, this contribution is the largest single donation from the corporation to the University. "The

University of Alberta is most grateful for this exemplary gift from Weldwood," said President Rod Fraser. "The management and employees of Weldwood have once again demonstrated their leadership by investing in tomorrow's leaders, today."

With headquarters in Vancouver, Weldwood is a major Canadian forest products company that produces pulp, lumber, and panel board products in a number of communities in British Columbia and Alberta. ■



George Richards speaks to students of Renewable Resources 430, a class in forest resource management.

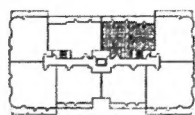
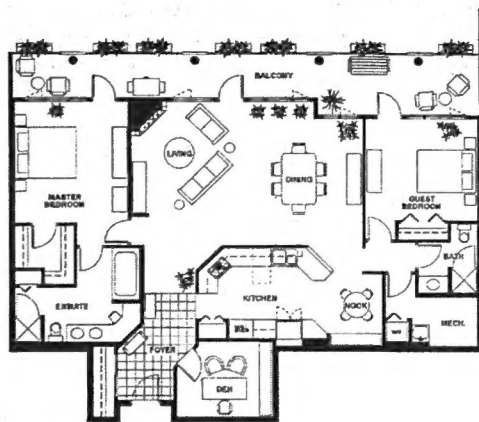
LETTERS

Conrad Black buys Folio?

Why on earth would Folio run such a blatantly partisan opinion piece as Shelley Bykewich's "Klien's Just Got that Certain Something" on the eve of the Provincial election? Don't tell me Conrad Black has bought Folio too.

Regards,
Alan Rutkowski

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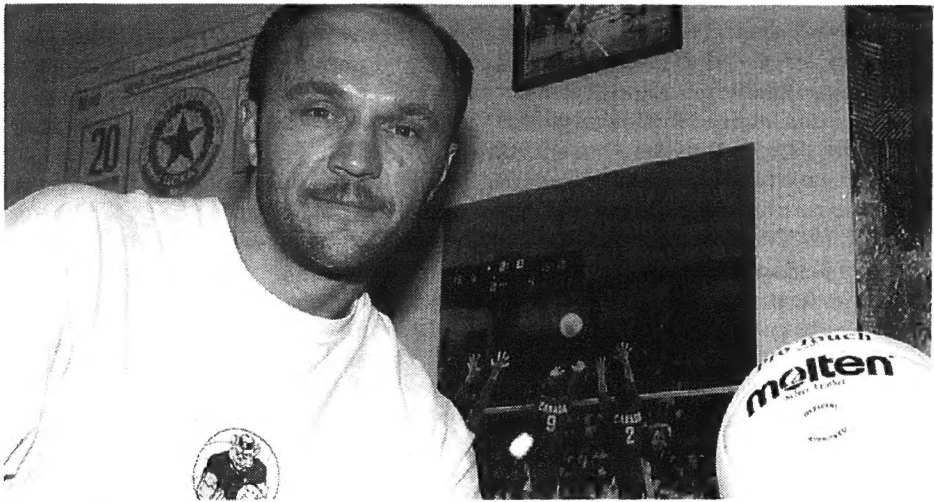
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Terry Danyluk credits coaches past and present

Volleyball Bears coach figured in teams' two national championships, once as a player and now as a coach

By Michael Robb



Volleyball coach Terry Danyluk

Few people experience the exhilaration of winning a national championship. But those who do often credit their coaches for getting them there. Bears volleyball coach Terry Danyluk is no exception.

There was junior high coach Tim Young, who instilled a love for the game in Danyluk, and ME Lazerte High School coach Errol Miller who taught the young player strategies few kids his age were learning. National team coach Ken Maeda taught him the technical aspects of the game and how to motivate players. Japanese coach Seiji Oko taught him not to treat all athletes the same, to know when to push and when to back off. And Dutch coach George DeJong gave Danyluk the ability to think tactically.

Twenty years later, Danyluk drew on those skills to lead a talented and committed group of athletes to win the national championship March 7 in Calgary.

The last time the Bears won was 1980-81. That team was a lot like the 1996-97 squad—tightly knit, a little on the mature side and very, very good. That year, Terry Danyluk was on the court. This year, he was behind the bench. "I remember the

feeling [of winning the national championship]. For 15 or 20 seconds it's a really personal thing. It's the culmination of a lot of hard work. You know it's been a great experience. You feel a sense of relief. It's like a huge sigh and your body has an incredible tingling feeling."

"I don't like the feeling of losing," says Danyluk. "I don't mind losing if we play well and the other team plays better—but I hate losing to a team when I know we shouldn't have." Winning, Danyluk says, begins at practice. "You get out of the game what you put into it during practice." And that's exactly what happened this year. Every player came to practice to put in quality time.

As a player, Danyluk practised what he now preaches and had an outstanding career.

- He played for Canada's national team and was there at the 1984 Los Angeles Olympic Games when the team placed fourth.
- He was a Bear when the team defeated the University of Manitoba Bisons, 3-2, in 1981. That year, he was U of A male athlete of the year and national tournament MVP.

And the winners are . . .

Two out of three party leaders in the recently elected provincial legislature are U of A alumni and several others with U of A connections will represent constituencies in Edmonton and the surrounding area. The list of successful candidates includes former Senate member Mary O'Neill and Iris Evans, a current member of the Senate.

- **Edmonton Calder**
Lib: Lance White, BSc Civil Engineering (1971);
- **Edmonton Centre**
Lib: Laurie Blakeman, BFA 1980, Certificate in Public Administration—Faculty of Extension, 1990, Drama Alumni Association president, 1991-93;
- **Edmonton Ellerslie**
Lib: Debby Carlson, Certified Management Accounting Co-op Program (1978-82);
- **Edmonton Glengarry**
Lib: Bill Bonner, BPE (1969) and BEd (1973);
- **Edmonton Highlands**
ND: Pam Barrett, BA Political Science and Economics (1979);
- **Edmonton McClung**
Lib: Grant Mitchell, BA Political Studies (1973);
- **Edmonton Mill Creek**
Lib: Gene Zwodesky, BA (1968); BEd (1976);
- **Edmonton Mill Woods**
Lib: Don Massey, BEd (1965), MEd, PhD, professor of elementary education;
- **Edmonton Rutherford**
Lib: Percy Wickman, advertising sales

manager for Students Union, 1969-73. Founding president of CUPE Local for Student Union employees;

- **Edmonton Strathcona**
ND: Rajinder Pannu, MEd (1966); PhD Sociology (1973); member of faculty, Educational Policy Studies and Sociology (1969-96);
- **Edmonton Whitemud**
PC: David Hancock BA (1975), LLB (1979);
- **Stony Plain**
PC: Stan Woloshyn, BEd (1969);
- **St Albert**
PC: Mary O'Neill; publicly elected member, U of A Senate, 1988-94; U of A Board of Governors, Senate Rep. 1991-94. Co-chair, Faculty of Phys. Ed. and Recreation Visiting Committee, 1995; Co-chair, Faculty of Arts Visiting Committee, 1996; lay observer, admissions committees, Department of Criminology, Faculties of Law and Medicine. Member - selection committees, Bruce Peel Library Endowment Senate Committee, Student Awards Program
- **Spruce Grove-Sturgeon-St Albert**
Lib: Colleen Soetaert, BEd (1977); diploma in English (1993);
- **Sherwood Park**
PC: Iris Evans, member of Senate (1991 to present);
- **Clover Bar-Fort Saskatchewan**
PC: Rob Loughheed, BEd (1969), BSc (1977), education diploma (admin.) (1986), Golden Bears basketball (1965-67).

- MVP and player of the year awards were common throughout Danyluk's professional career as well. He played for winning teams in Japan, France and Switzerland before returning to his Alma Mater in 1991 to coach.

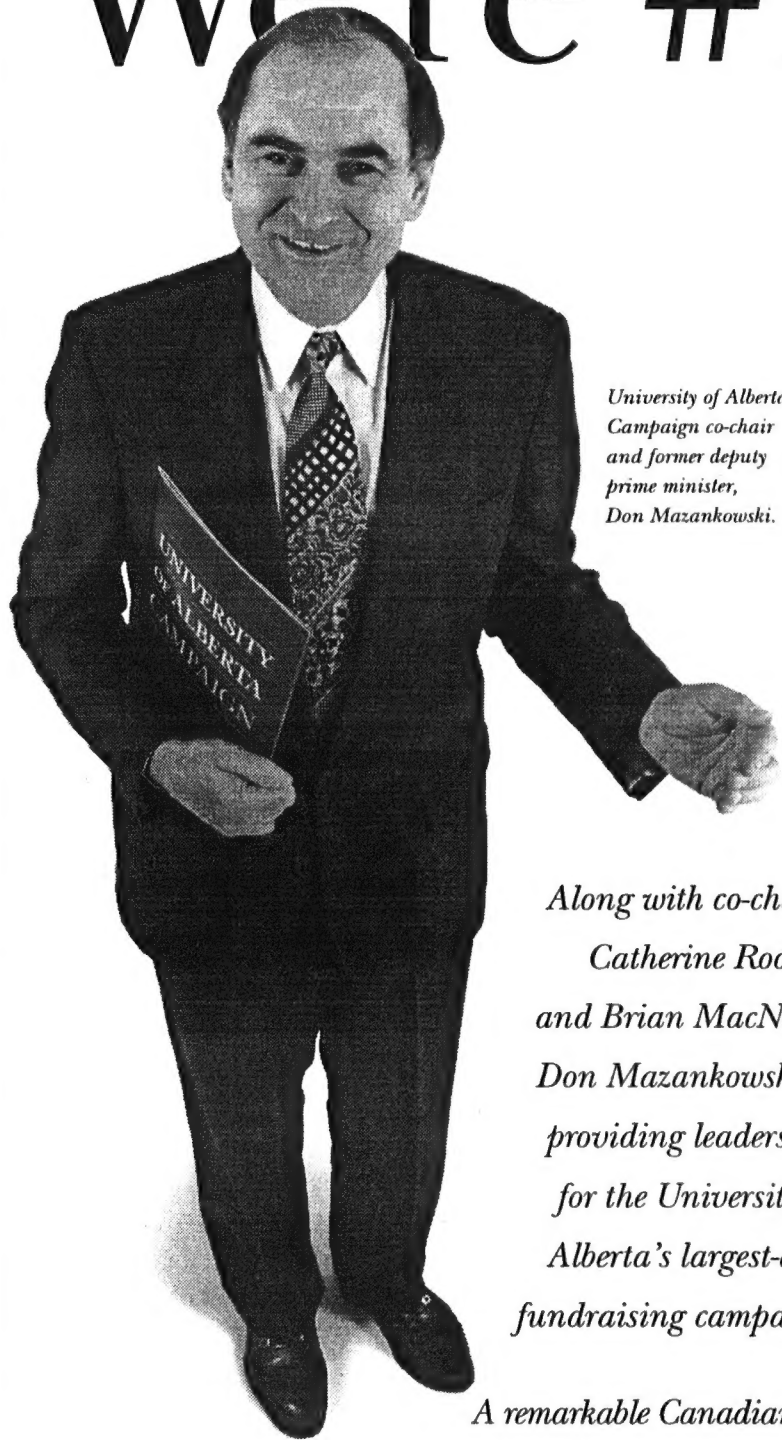
Coaches once again influenced Danyluk—this time as colleagues. "There is definitely a coaching fraternity here at the U of A; there are a lot of good coaches and solid support from the Athletics Department," he says. Next door, Pandas volleyball coach Laurie Eisler, a three-time winner of the national championship, was there to provide advice. "Administratively, she's very strong and has a lot of

ideas." And Danyluk turned to basketball coach Don Horwood for advice on coping with the loss of three starters in one season. Other coaches provided advice on everything from sport psychology to the more mundane tasks of running a team.

It's not all joy, however. Like most coaches, Danyluk doesn't like cutting players. And recruiting has become more competitive. Players now want to be sold on the program and the school. That puts the U of A in the driver's seat, he says, because of its program diversity. Prospective players will likely find the academic program they want. "That's a huge recruiting benefit," he says. ■

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LAURELS

Ayer wins Montreal Medal



Dr. William (Bill) Ayer

U of A Professor Emeritus William A. Ayer has been awarded The Montreal Medal of the Canadian Institute of Chemistry. The honor recognizes significant leadership in, or an outstanding contribution to, the profession of chemistry or chemical engineering in Canada.

Dr. Ayer joined the U of A in 1958 and became University Professor Emeritus in 1996. Ayer's research focused on the chemistry of naturally occurring compounds, initially from plants, especially the club mosses, then on fungal metabolites. In 1967 he reported, simultaneously with B. Stork, the first total synthesis of lycopodine. His study of fungi concentrated on those which cause or cure plant diseases. Applications of this work include controls of the so-called blue stain fungi and the American leaf spot disease of coffee. More than 80 previously undescribed natural products have arisen from his work, including 19 new structural classes. This work has resulted in more than 190 scientific publications, and 40 students have received PhD's working on these and related problems. ■

State-of-the-art retrieval system to aid students

Sandra Halme

A \$2.5 million gift from International Datashare Corporation will give students in the Faculties of Science and Engineering access to the one of the most complete and modern geologic information retrieval systems in the world.

The need to upgrade the petroleum geology software and data base of geologic files at the University has been identified as a necessity for some time. This new system will enhance the educational experience for geology and petroleum engineering students by enabling them to work with the advanced systems they will encounter once in the workplace. It will give students the opportunity to tackle increasingly complex geologic assignments using this state-of-the-art software and information. As well, students who then advance to work in the surface and sub-surface industry, ie, oil exploration,

will be able to move seamlessly from the system they learned on and used at the U of A to the one most commonly used in industry.

University President Rod Fraser commended International Datashare Corp. for its interest in and generous commitment to enhancing the quality educational experience for U of A science and engineering students. "Indeed, all students will benefit from this advanced system and the lasting effect will be felt on campus for some time to come," he said, adding that "the International Datashare Corp. gift is a significant contribution to the University of Alberta Campaign for which we are most grateful and it clearly places them in our prestigious major lead gift category."

International Datashare Corp. President and CEO, Jim Durward, said the company has wanted to become involved in the teaching and learning field for some time. "We were very pleased to be the first gift received by the University through their Calgary office," Durward commented and went on to say that "the University of Alberta is a perfect fit for us as we can provide students with the leading edge technology needed for today's educational and workplace environment," Durward commented.

International Datashare Corp. of Calgary (formerly Riley's Datashare) is a petroleum industry service company which has developed techniques to convert well log data into a format capable of being used by computers. This data is essential for the economic exploration and production of oil and gas. ■

Baker to assist national women's team

Pandas basketball coach Trix Baker will serve as assistant coach on the Canadian National Women's basketball team for six weeks this summer.

Baker will work under new National Team coach Bev Smith, a former National Team athlete who Baker coached while she assisted Kathy Shields with the National Team in the summer, 1994.

A six-season Alberta head coach, Baker helped the team to a 15-5 record in conference play in 1996-1997, the team's best conference finish in 20 seasons.

Baker also served the national program as apprenticeship coach in 1990.

The Canadian National Team will begin try-outs in Toronto April 29, then play three exhibition games against the United States (May 9 - Guelph; May 10 - Hamilton; May 11 - London)

before leaving for a series of exhibitions in Italy May 13-19.

The National Team will compete in the COPABA Qualifying tournament (Brazil) June 6-14. ■

DO YOU WANT US TO KEEP A SECRET?

The Development Office usually lists the names of all donors to the University in the annual report.

However, if you wish to keep your donation a secret—please e-mail Karen May in the Development Office at aren.may@ualberta.ca.

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1997-1998 GSA EXECUTIVE ELECTIONS

Voting for the positions of VP (Internal) and VP (Student Services) will take place at the GSA Annual General Meeting, March 24, 1997. Nominations for VP (Student Services) are still open and may be made in advance or taken from the floor during the AGM.

A Candidates forum will be held prior to the commencement of the AGM.

For more information or nomination forms, please contact the CRO, Frank Coughlin, at 492-2175 or coughlan@freenet.edmonton.ab.ca.

GSA ANNUAL GENERAL MEETING

The Annual General Meeting of the Graduate Students' Association is on Monday, March 24, 1997. The meeting will be held in Council Chambers, University Hall at 6:00 pm.

All graduate students are invited.

For more information, contact the GSA office at 492-2175 or gsa@ualberta.ca.



Oh, to be color blind

By Christopher Levan

Ask me why I've got a tan. Arctic blizzards fill the air with snow, and the sun is blotted out. So what gives? I confess. Rather than reading, I passed the winter break in a southern climate, but it was all in the name of education.

There is an ancient teaching technique which has been re-incorporated into a good number of university degree programs—intentional dislocation. It was the unique genius driving the pilgrimages of the Middle Ages and the cornerstone for the training of young Victorian nobles. More recently, it was resurrected by Marxist revolutionaries from Nicaragua to Korea as a means of reformation for the intelligentsia.

It's simple, really. The best learning takes place when we are uprooted from the things we know and placed in a context which we do not. When we go backpacking through Europe, or trekking in Nepal, or do an internship in an aboriginal community, or visit the homeless world of city core shelters, we are forced to face a new world. Apart from the obvious learning that takes place when we confront cultures divergent from our own, the gift of intentional dislocation is that

we reflect on our "home" with new eyes, seeing what has passed unnoticed under our very noses. Often cross-cultural experiences, as they are now called, teach us more about ourselves than the foreign neighbour we meet.

This was certainly the case when last month I journeyed with a group of our study tour participants to Cuba. We went to explore the unique situation of the Protestant church and its life in revolution. How does a religious tradition, which had moved largely within capitalist assumptions for three centuries, adapt itself to a communist state?

In spite of the focus of our tour, the learning that will stay with me is not religious in nature but racial. You see, Cuba is color-blind. I was constantly surprised by the extent to which the barriers of race were so much lower on that hot Caribbean island than in the true north strong and frozen. Of course, no society is perfect nor does any inter-racial community live with-

out inequalities. And I would not claim purity for the Cuban experiment. Nevertheless, it was a dramatic contrast to our own unity through diversity.

Our continent has lived with structured racism for so long that it appears to be accepted as regrettable necessity. In spite of efforts to the contrary, people of color—

African Americans and Canadians as well as aboriginal people—are denied access to power, ghettoized in specific occupations and reserves, and

regarded as "different" (read inferior, though we'd never say it publicly). Alas, those folk who do not fit the mainstream Anglo-Saxon portrait are at a disadvantage.

In Cuba, there seemed to be very little difference between the rainbow of human colours. Black, white, brown, red, olive—all seemed to mingle and intermarry without distinction. I was unable to distinguish any segregation according to employment, companionship, housing or love.

The longer I watched and listened, the more I recognized that beside the fortunes of history, this color-blindness was the result of a political and social decision.

The crux of my cross-cultural lesson was that racism is, at some level, a political choice. We tolerate it as an acceptable evil. To be more precise, we feign resistance to it and lack the political will to eradicate it in order to bring about the economic equality which could act as a just foundation for the establishment of truly "free" country.

I would be less than honest if I didn't mention that this mid-February cross-cultural experience had the added benefit of visiting a sun-drenched beach between lectures and seminars. Now as I watch my tan fade, I know that colour is only skin deep. We are only a few dreams, some ethical determination, or a plane ride away from that new world where the color of skin is irrelevant to the building of community.

May it be so in our university. ■

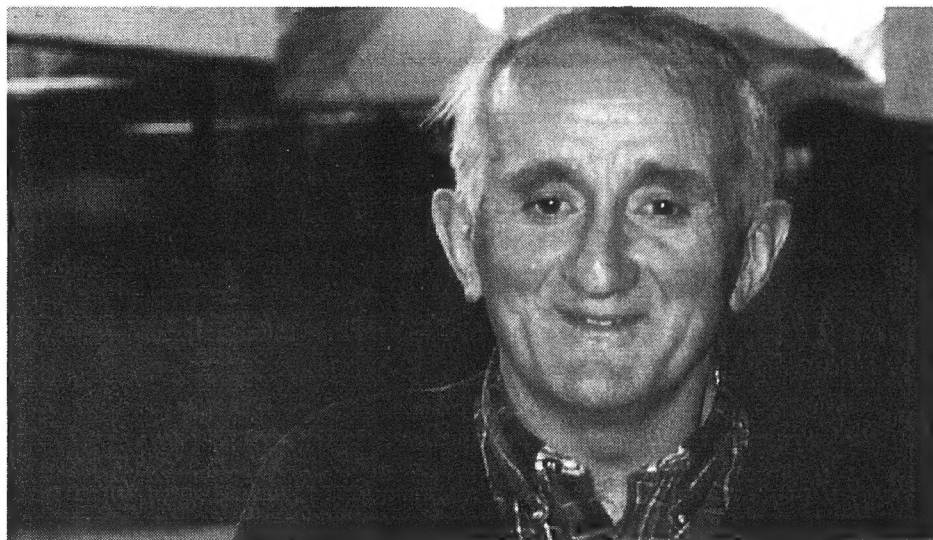
Dr. Christopher Levan is the principal of St. Stephen's College.

Irish poet and priest tries a U of A retreat

By Bert Almon

When Michael McCarthy, spiritual director of the Ushaw Seminary at the University of Durham, England, talked to his bishop about sabbatical plans, he said he would like to spend the time exploring the connections between spirituality and poetry—by writing poems, a new vocation he had been quietly exploring. The bishop's reply was direct: "Wonderful!" Most such leaves are given to pursue theological or counselling studies. But the bishop was sure that something fruitful would come of this unusual request. For more than six months McCarthy has been at the University of Alberta, writing poetry, taking part in classes and becoming an Edmonton celebrity.

McCarthy, a native of County Cork, Ireland, decided to go far from the British Isles: "I imagined that by crossing geographical frontiers, expanding psychological frontiers would be easier." One place he investigated was the Banff School of Fine Arts. That possibility led him to write Alberta Culture for information about the province. In reply, the director mentioned that Edmonton has a thriving literary scene, with a poetry festival, frequent readings in bookstores and coffeehouses—and a creative writing program at the University. He inquired here and received a letter from Pat Demers, chair of English, offering him office space. "I thought that



Michael McCarthy

was very welcoming," he says, and he decided to come. He has been a welcome guest at the University, where he has been happy to talk about Irish poetry with Douglas Barbour's modern poetry students. He has taken a Faculty of Extension course on "Writing as a Spiritual Practice," from local poet Shirley Serviss. In the first term he participated in my advanced creative writing course, adding a great deal to the class by his wit and insight, and contributing poems that use

dreams, Irish folklore, imagery of rural Ireland, and stories from the Bible to explore the inner life. He has found visits to Ven Begamudré, the writer in residence in the English Department, very helpful in developing his craft. He had planned to go to Washington, D. C. after Christmas to take a course on poetry and spirituality, but decided to stay here and pursue the practice instead of the theory.

In Edmonton he has become a celebrity in the poetry organization, "The Stroll of Poets." He took part in the annual festival in the fall, and was chosen on the basis of his work to take part in a reading in the annual holiday series, "The Twelve Days of Poetry." And by audience choice he was selected for the finale of the "Twelve Days" series, where he was captured on local television reading and singing a song. His readings have a dramatic quality: he uses the full resources of both the English language and his own voice. He has just had a poem accepted by a leading Canadian journal, *Queen's Quarterly*, and his work has been purchased by CBC Radio for the "Alberta Anthology" Series. He has put off his departure from Edmonton several times, but plans to return to England in May, where he wants to take up the life of a parish priest in a Yorkshire village. If on his return he mentions his stay here and anyone asks, "Why Edmonton?" he will have much to say in reply. ■

Dr. Bert Almon is a professor of English at the University of Alberta and teaches modern literature and creative writing. He is currently on leave to complete research for his upcoming book on writer William Humphrey.

Catherine M. Fletcher D.D.S.

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April 10, 1997 Stollery Centre, Fifth Floor, Faculty of Business Building

To celebrate the 10th anniversary of the University Management Workshop a pre-conference professional development day will be held in the Stollery Centre on April 10 as well as an intensive three-day workshop at Strawberry Creek Lodge from May 22 to May 24. Individuals may enroll in either or both sessions. While both sessions deal with the same topic, they will not be repetitive. During the professional development day you will learn:

- how senior administration at the U of A and other Alberta universities and colleges plan to adjust to the global environment;
- what "internationalization" demands of university management and administration;
- how leadership can be marketed in the global economy;
- what you can do to assist colleagues in less technologically advanced countries;
- what future direction human resources management will take;
- how our Canadian workplace will evolve in the new millennium.

Registration fee: \$125

Deadline: April 2, 1997

Register: Room 1-11, University Hall,

Phone: Gail, 492-2796 or fax 492-9672

GENERAL FACULTIES COUNCIL

There will be a meeting of the GENERAL FACULTIES COUNCIL Monday, March 24, 1997 at 2:00 p.m. Council Chambers, University Hall.

If you would like to have a copy of the GFC agenda, drop by 2-5 University Hall or call the University Secretariat at 492-4965, and we will fax or mail a copy to you.

GRADUATE STUDENT TEACHING AWARD WINNERS

The deans, in consultation with their faculties, staff and students, have selected 43 teaching assistants to receive the University of Alberta Graduate Student Teaching Awards. The awards are given annually. University Teaching Services (UTS) administer the nomination and granting procedures.

The honor recognizes teaching assistants who show commitment to their work, have a superior command of the subject matter and are highly respected by their students.

Award winners receive a certificate and a letter suitable for their teaching dossier signed by President Rod Fraser and UTS Director Bente Roed.

1997 GSTA RECIPIENTS

Faculty of Agriculture, Forestry and Home Economics

Kay Kathan McFadyen, Department of Human Ecology

Faculty of Arts

Rachel Bennett, Department of English
Tami M. Bereska, Department of Sociology
Ria Busink, Department of Psychology
Wayne DeFehr, Department of English
Dale J. Dewhurst, Department of Philosophy
Gunhild Hoogensen, Department of Political Science
Oksana Krysz, Department of Modern Languages and Comparative Studies
Fiona A.L. Nelson, Department of Sociology
Michael Snyder, Department of Psychology
Adam Spires, Department of Modern Languages and Comparative Studies

Faculty of Business

Ujwal Kayande, Department of Marketing, Business Economics and Law

Faculty of Education

Ed Nicholson, Department of Elementary Education
Wendy A.R. Wiles, Department of Educational Psychology
Jennifer Kelly, Department of Educational Policy Studies
Susan Hart, Department of Elementary Education

Faculty of Engineering

Lawrence Rodnunsky, Department of Electrical and Computer Engineering
David Sharp, Department of Chemical and Materials Engineering
Catherine Wride, Department of Civil and Environmental Engineering
Loren Wyard-Scott, Department of Electrical and Computer Engineering

Faculty of Medicine and Oral Health Sciences

Andrew Hirsh, Department of Physiology

Faculty of Nursing

Jane L. Waring

Faculty of Pharmacy and Pharmaceutical Sciences

Jaber Emamibafani,

Faculty of Physical Education and Recreation

David Legg

Faculty of Rehabilitation Medicine

No nominations received

Faculty of Science

Astrid Arts, Department of Earth and Atmospheric Sciences
Kimberley Christopher, Department of Biological Sciences
Michael Finot, Department of Chemistry
Rodney Gagne, Department of Chemistry
Todd Graham, Department of Chemistry
Giseon Heo, Department of Mathematical Sciences
Shelley Humphries, Department of Biological Sciences
Renata Jankowska, Department of Chemistry
Brent Karner, Department of Biological Sciences
David Lawrie, Department of Physics
Anthony Neumann, Department of Biological Sciences
John S. O'Connor, Department of Mathematical Sciences
Wladyslaw Olesinski, Department of Computing Science
Trevor Nickle, Department of Physics
Rachel Katherine Quinlan, Department of Mathematical Sciences
Kirill V. Richine, Department of Computing Science
C. Dean Rokosh, Department of Earth and Atmospheric Sciences
Scott Stevens, Department of Biological Sciences
Carol Yue Zheng, Department of Chemistry

What was said...

True leaders look to the future

The following excerpt is from remarks by Eric P. Newell, chairman, president and CEO Syncrude Canada Ltd. to the 19th Annual Canadian Business Leader Award Dinner, March 19, 1997. Newell, a member of the U of A Board of Governors, was honored by the Faculty of Business with its annual Canadian Business Leader Award which recognizes distinguished professional achievement and contributions to the community.

"...I hope the young people here to night realize just how important you are. And I hope the rest of us understand why it's so important to invest

in our youth—to invest in skills and education.

If I sound like my passion for this knows no bounds, well, it's true. But let me just add a third party opinion on the subject: The Conference Board of Canada nailed youth preparation, specifically the employability skills of our future workforce, as the number one factor—the top criterion—that Canada will need to meet the truly staggering potential of our country.

And if we address that need—if we invest in skills and education—then we



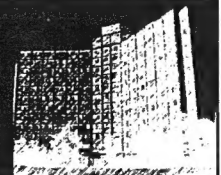
Eric Newell

will have fulfilled one of our most important obligations as the leaders of today. We will have met the challenge of making sure our country will flourish long after we've given up the reins.

That's the absolute bottom line measurement of an effective leader . . ."

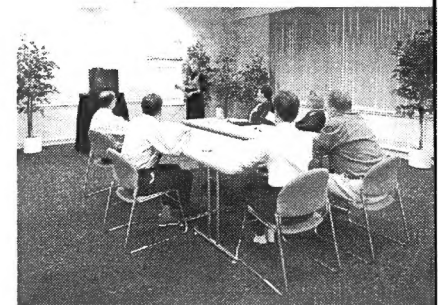
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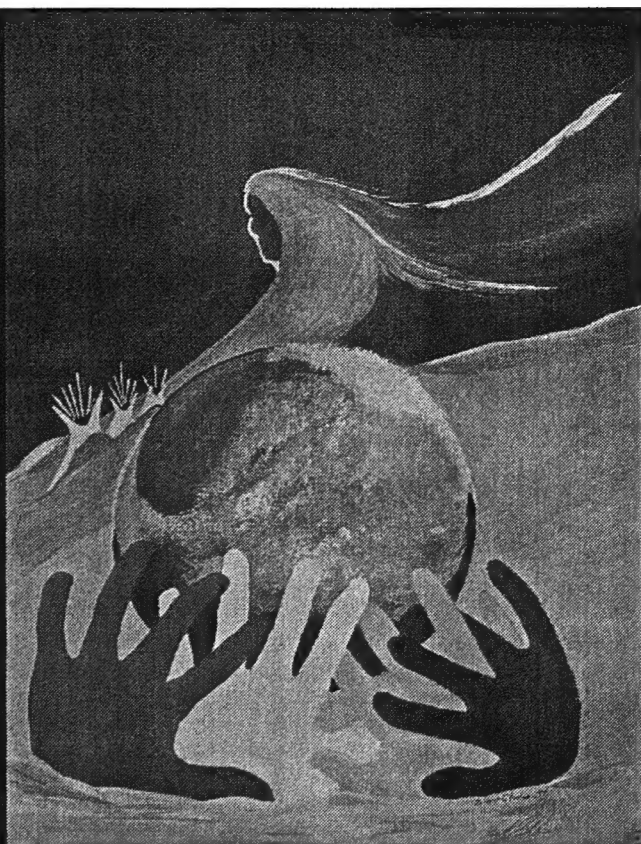
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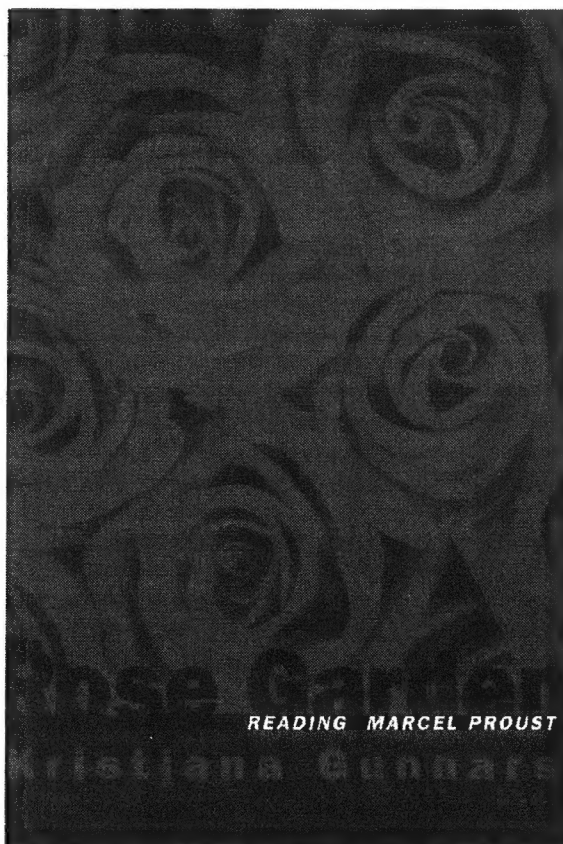


The Rose Garden: Reading Marcel Proust

Poet, writer and U of A professor Kristjana Gunnars writes gentle protest against a "a consumer model of reading."

Kristjana Gunnars, Red Deer College Press, 1996, \$12.95, 127 pp.*

By Shawna Lemay



The Rose Garden: Reading Marcel Proust is the 12th book by U of A English Professor Kristjana Gunnars.

When I recommend Kristjana Gunnars' book, *The Rose Garden: Reading Marcel Proust* to a friend, invariably the response is "but I haven't read Proust." My answer is, Proust is to *The Rose Garden* as Herodotus is to *The English Patient*. Sort of. But I'll come back to that.

In *The Rose Garden*, a book designed to make booksellers deliciously mad, a book that resists categories, a book unnervingly designated on the back-cover "non-fiction," Gunnars picks up the threads of the classical tradition and takes the reader on a meandering tour away from the center of the labyrinth. Near the end of the journey, Gunnars quotes Northrop Frye: there is a "long-standing connection between the written book and the arts of magic." And indeed, by some sleight of hand the visitor to *The Rose Garden* ultimately finds herself outside of the labyrinth, unsure of having been there at all—was it, perhaps, a confusion of mirrors?

And who was that distortionist, our protean anti-tour guide?

Much has been written about the stories that have been available for women to tell—Carolyn Heilbrun speaks of the erotic plot, the marriage plot, the courtship plot. The male quest plot has been off limits. Harold Bloom was so fine as to

once say that "male poets engage in quests, while female poets run errands." Not that I have anything against the

running of errands, or, for that matter, engaging in quests, I would suggest that this book, instead, is one that keeps appointments. Gunnars quotes Proust: "I had, for necessary business which required my immediate attention, an urgent, a supremely important appointment with myself."

The appointment the protagonist keeps, amid the persistent interruptions of a romance plot, takes place in a rose garden, with a book, Proust's *Remembrance of Things Past*. The reading of a single book for the span of a season becomes a protest against "a consumer model of reading,"

and at the same time provides a new model of reading, of living, even.

In *The English Patient*, Almásy says: "This is a story of how I fell in love with a woman, who read me a specific story from Herodotus." But in *The Rose Garden*, the protagonist, with the help of Proust, learns how to articulate that she is not in

love: "Such a simple statement to make, yet it will not come out." As the protagonist of what could be a romance plot, she is "not unaware of the

danger" she is in. The narrator/protagonist says: "If I persist in this demeanour, the demeanour of the one who does not love and yield, I will eventually be rendered invisible and thrown away." So the protagonist, the reader, "must act as terrorist. Should blow things apart." *The Rose Garden* is a book that delicately enacts this treacherous act of terrorism and leaves in its wake "a vague scent of blossom." ■

Shawna Lemay is an Edmonton poet who graduated from the U of A with a BA (Honours), English in 1995.

Former U of C president dies

Dr. Murray Fraser, recently retired president of the University of Calgary, died April 11 of a heart attack.

He served at the U of C for eight years and had retired as president just nine months ago. He would have been 60 in April.

Fraser is remembered as a tough visionary who steered the U of C through severe grant cutbacks, launched a \$46 million fund-raising campaign and helped build the University into a major research facility. "The remarkable thing about him was that he had such a broad national profile," said Dr. Allan Tupper, U of A vice-president (research and external affairs). "He was dean of law at Dalhousie and created the University of Victoria law school at the other end of the country."

Tupper says Fraser was also remembered for his integrity and his commitment

ment to student life and to teaching. "He was famous for keeping contact with his many students," says Tupper. At the memorial service in Calgary, his former student, Justice McPherson, spoke. Another former student from the same class at Dalhousie is federal Minister of Natural Resources Anne McLellan.

"He was dynamic, energetic and he knew his mind," says Tupper. "He was a forceful personality." Tupper said one comment at the memorial captured the essence of Fraser well: "He believed in the power of love, not in the love of power and more importantly practiced it."

Fraser remained active in retirement and was a director of two companies. He and his wife Anne were given joint U of C honorary degrees last fall. ■



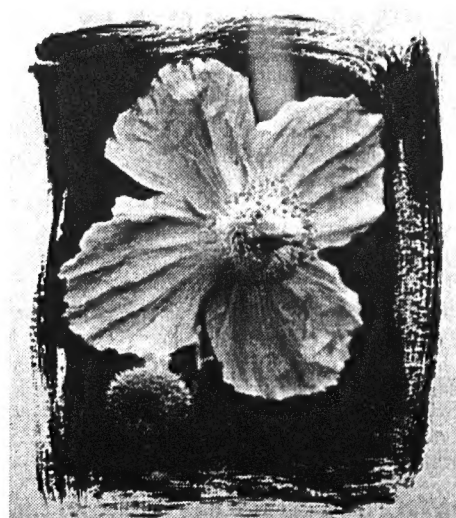
NOTICES

TOASTMASTERS AT THE UAH

For those who suffer butterflies when called on to speak... The official charter meeting of the Club Med Toastmasters will take place Tuesday, April 15 at noon in classroom J (2H1.22) Walter MacKenzie Centre. For more information, please contact Linda O'Dowd-Brown, 437-7113 or Barry Brayshaw, 433-1187. Regular meetings will take place Tuesdays at noon in room 452 Heritage Medical Research Centre.

FACULTY WOMEN'S CLUB MEETS

Experience an evening of Thai culture with Eric Wah, chef and owner of The King and I Restaurant, at the Faculty Women's Club annual General Meeting, Monday, April 28, 1997 at the Strathcona Community centre, corner of 1001 Street and 86 Ave. Refreshments, dinner and special program \$20. For tickets, please call 427-0635.



LOIS HOLE LEADS SOUTHERN ALBERTA GARDEN TOUR

Alberta's best-known gardener and a long-time U of A supporter, Lois Hole, will be leading a Garden Tour to Southern Alberta August 12-14, 1997.

Sponsored by the Devonian Botanic Garden and Friends, this three-day, two-night tour is focused on comparing the University's Kurimoto Japanese Garden (1990) with the Nikka Yuko Centennial Japanese Garden (1967) in Lethbridge. Both gardens were designed and built by Kubo and Associates of Osaka, Japan. Hole will lead a get-acquainted information meeting at the Devonian August 6 at 7 p.m. and will speak on Dr. Kubo's two gardens.

In addition to the Lethbridge garden, the tour includes a guided tour of the botanical garden and prehistoric park at the Calgary Zoo and a visit to the Head-Smashed-In Buffalo Jump Interpretive Centre.

Travel will be by luxury motor coach. The cost is \$285 per person plus GST and includes all admissions, two nights accommodation, breakfasts, a lunch and reception. For more information, please call Maureen Bedford at the Garden, 987-3054.

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ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

March 25, 3:30 p.m.

Araldo Videira, Instituto de Ciencias Biomedicas, University of Porto, "Characterization of Respiratory Chain NADH Dehydrogenase (Complex I) from Mitochondria of Neurospora." Presented by The Molecular Biology and Genetic Research Group (Biological Sciences). G-116 Biological Sciences Centre.

ANTHROPOLOGY

March 25, 3 p.m.

David Trigger, Department of Anthropology, University of Western Australia, Perth, "Reflections on Century Mine: An Anthropological Perspective on the Politics of Indigenous Responses to Large-Scale Mining in Australia's Gulf Country." 14-28 Tory Building.

ANTHROPOLOGY AND CENTRE FOR CROSS CULTURAL STUDY OF HEALTH AND HEALING

March 21, 3 p.m.

Linda Ogilvie, "Nursing and Primary Health Care in Nepal." 14-28 Tory Building.

BIOCHEMISTRY

March 27, 4 p.m.

Lorne Tyrrell, "Antiviral Therapy for Hepatitis B from Bench to Bedside." 2-27 Medical Sciences Building.

BIOLOGICAL SCIENCES

March 21, 3:30 p.m.

Mike Belosevic, "Macrophage Antimicrobial Mechanisms." M-149 Biological Sciences Centre.

MOLECULAR BIOLOGY AND GENETICS

March 25, 3:30 p.m.

Araldo Videira, Instituto de Ciencias Biomedicas, University of Porto, "Characterization of Respiratory Chain NADH Dehydrogenase (Complex I) from Mitochondria of Neurospora." G-116 Biological Sciences Centre.

PHYSIOLOGY AND CELL BIOLOGY

March 25, 12:30 p.m.

Helen Mao, "Development and Regulation of Ecdysteroid Receptors in the Salivary Gland of the Tick *Amblyomma lebraeum*." G-114 Biological Sciences Centre.

April 1, 12:30 p.m.

Kimberley Christopher, "Signal Transduction Pathways in 5HT-Stimulated Ciliary Activity in *Helisoma trivolvis*." G-114 Biological Sciences Centre.

April 8, 12:30 p.m.

Katie Murphy, "Endogenous Lectins and Mesonephric Development in the Chick Embryo." G-114 Biological Sciences Centre.

CANADIAN UTILITIES LIMITED DISTINGUISHED LECTURESHIP SERIES

April 3, 2:30 p.m.

J K Brimacombe, OC, The University of British Columbia, "What Matters in Materials." 2-3 Mechanical Engineering Building.

CATHOLIC CAMPUS MINISTRY

March 23, 8 p.m.

Father Jeff Thompson, CSB, "Babette's Feast and The Lord's Supper." St Joseph's College.

CENTRE FOR GERONTOLOGY

March 24, 7:30 p.m.

Doris Milke, Research Coordinator, Capital Care Group, "Residential Lighting for Seniors: Who Sets the Standard?" 2-47 University Extension Centre.

CHEMICAL AND MATERIALS ENGINEERING

March 27, 3:30 p.m.

Ibnelwaleed A Hussein, "Structure and Structural Transformations in Molten High Density

Polyethylene." 342 Chemical-Mineral Engineering Building.

April 3, 3:30 p.m.

Xiaocai Chen, "Fractionation of Nylon Fibres." 342 Chemical-Mineral Engineering Building.

CHEMISTRY

April 4, 4 p.m.

Peter M. Maitlis, professor of Chemistry, University of Sheffield, England, EFF Distinguished Visitor, "My Life and Hard Times (with apologies to James Thurber)." V-Wing Lecture Theatre V-111.

April 4, 11 a.m.

Peter M. Maitlis, professor of Chemistry, University of Sheffield, England, EFF Distinguished Visitor, "New Ways to Vintage Vinegar: the Carbonylation of Methanol." Chemistry E3-25.

April 7, 11 a.m.

T Mark Zabriskie, College of Pharmacy, Oregon State University, "Mechanisms and Inhibition of Enzymes in Eukaryotic Lysine Metabolism." V1-07 Physics Wing.

April 9, 3:30 p.m.

Peter M. Maitlis, professor of Chemistry, University of Sheffield, England, EFF Distinguished Visitor, "Carbon Monoxide to Olefins: Chemical Magic—What's the Trick?" Chemical/Mineral Engineering CME-345.

April 10, 7 p.m.

Peter M. Maitlis, professor of Chemistry, University of Sheffield, England, EFF Distinguished Visitor, "Getting the Last Sulphur Out of Fuel." V-Wing Lecture Theatre V-112.

EARTH AND ATMOSPHERIC SCIENCES

March 21, 3 p.m.

Mark Fenton, Alberta Geological Survey, "Glacially Deformed Bedrock Detection and Implications for Plains Coal Mining and Mineral Exploration." 3-36 Tory Building.

April 4, 3 p.m.

James Burns, Provincial Museum of Alberta, "In Step with the Mammoth Step: A Walk in Postglacial Alberta." 3-36 Tory Building.

April 11, 3 p.m.

Stefan Bachu, Alberta Geological Survey, "Hydrogeology, Geothermics and Thermal Maturation of Lianos Basin, Columbia." 3-36 Tory Building.

EAST ASIAN STUDIES

March 21, 3 p.m.

Cody Poulton, assistant professor, Department of Pacific and Asian Studies, University of Victoria, "The Cult of Selfhood in Shiga Naoya's *A Dark Night's Passing*." L-2 Humanities Centre.

ENGLISH

7 April, 4 p.m.

Ven Begamudré, writer in residence and E D Blodgett, this year's Governor General's Award winning poet, will give public readings. 4-29 Humanities Centre.

HUMAN ECOLOGY

March 27, 1 p.m.

Irene Karsten, "Determining the Effects of Light Aging on Silk Adhered to Sheer Fabric Backing: Methods and Preliminary Results." 131 Home Economics Building.

April 3, 1 p.m.

Anne Smith Bagan, "Late 19th Century Blackfoot Blanket Coats: Findings from Museums and Archival Research." 131 Home Economics Building.

April 10, 1 p.m.

Sheila Gillen, "Exploration in Cloqué: Part III." 131 Home Economics Building.

INSTITUTE FOR PUBLIC ECONOMICS

April 1, 3:30 p.m.

Bev Dahlby, "The Deductibility of Provincial Business Taxes with Tax Base Overlap." 8-22 Tory Building.

April 8, 3:30 pm

Ken McKenzie, University of Calgary, "Tax-Induced Options and (Dis)Investment." 8-22 Tory Building.

LAW

March 26, 8 p.m.

The 1997 Eldon D Foote Lecture. Yuji Iwasawa, Professor of International Law, University of Tokyo, "The Implementation of the World Trade Organization Uruguay Round Agreements in Japan." McLennan Ross Hall, 237 Law Centre.

MODERN LANGUAGES AND COMPARATIVE STUDIES

March 22, 9:20 am to 5 p.m.

"Discourse and Pathology/Discours et pathologie/Discurso y patología" Third Annual "Highway Two" Joint Colloquium between the University of Calgary, Department of French, Italian and Spanish and the University of Alberta Department of Modern Languages and Comparative Studies. Senate Chamber, 326 Arts Building.

9:20 a.m.

George Lang, Presiding.

9:30 a.m.

Don Bruce, "Notions générales."

10 a.m.

Anthony Wall, University of Calgary, "Le discours de rêves malades: Diderot."

10:45 a.m.

Anna Gural-Migdal, "Montage visuel et pathologie chez Zola."

11:15 a.m.

Paul Dubé, "Pathologie et sexualité: le cas Gabrielle Roy."

11:45 a.m.

Terry Nadasdi, "L-atrophie linguistique en français minoritaire?"

1:30 p.m.

Anne Malena, "Les îles qui se répètent dans La migration des coeurs."

2 p.m.

Estelle Dansereau, University of Calgary, "Vieux discours sur les vieilles femmes."

2:30 p.m.

Kasia Noworyta, University of Calgary, "Discurso burlesco en Rato de placer y coloquio de damas."

3:15 p.m.

Luis Torres, University of Calgary, "La nación enferma y la poesía chilena del periodo autoritario."

3:45 p.m.

Joane Martel, "Il était une fois Pierre Rivière... ou la reconstruction du discours d'un 'fou'."

4:15 p.m.

Dominique Perron, University of Calgary, "Discours pathologiques du changement à l'Université."

PHARMACOLOGY

March 26, noon

Pieter Van Der Bijl, associate professor, Faculty of Dentistry, University of Stellenbosch, South Africa, "The Benzodiazepines in Dentistry." 9-68 Medical Sciences Building.

PHARMACY AND PHARMACEUTICAL SCIENCES

March 26, noon

Leonard Wiebe, "Imaging Hypoxia: From Bench to Bedside with 123-IAZA." 4069 Dentistry-Pharmacy Centre.

PHILOSOPHY

March 27, 3:30 p.m.

Crispin Sartwell, "The Crystalline Moment: Temporality and Trompe l'oeil." 4-29 Humanities Centre.

PHYSICS

March 27, 2 p.m.

Robert C. Dynes, Department of Physics, University of California, San Diego, "Symmetry of the Superconducting Order Parameter in High Tc Superconductors." V-129 Physics Wing.

PHYSIOLOGY

March 21, 3:30 p.m.

Anthony K Ho, "Regulation of Cyclic Nucleotides in Rat Pinealocytes." 207 Heritage Medical Research Centre.

April 4, 3:30 p.m.

Christopher I. Cheeseman, "Control of Intestinal Nutrient Absorption." 207 Heritage Medical Research Centre.

POLITICAL SCIENCE

March 21, noon

Thomas Hueglin, Wilfrid Laurier University, "Transformation of Governance in the European Union: Postmodern Comedy of Errors, or Dramatic Project of Universalism?" 10-4 Tory Building.

March 26, 7:30 p.m.

Kenneth McRoberts, Department of Political Science, York University, "Is Separation the Only Answer?" TB-45 Tory Building.

March 27, 12:30 p.m.

Panel debate with Kenneth McRoberts and Claude Couture, moderated by Linda Goyette of *The Edmonton Journal*, "Quebec and Trudeau: The Quiet Revolution and Beyond." 10-4 Tory Building.

PSYCHOLOGY

CENTRE FOR RESEARCH IN CHILD DEVELOPMENT

April 11, 1 p.m.

Tom Kieren, Lynn Gordon-Calvert, and Elaine Simmt, "Beneath the Disembodied Surface: Action and Interaction in Mathematics." P-218 Biological Sciences Centre.

RENEWABLE RESOURCES

March 27, 12:30 p.m.

Janusz Zwiazek, "Physiological Characteristics of Nursery-Grown White Spruce Seedlings: Can We Grow Better Seedlings?" 2-36 Earth Sciences Building.

April 3, 12:30 p.m.

Francis Yeh, "Genetic Analysis of Logistic Growth Curve of Seasonal Tree Height: Does Fast Growing Tree Exhibit Greater Growth Rate or Greater Growth Duration?" 2-36 Earth Sciences Building.

April 10, 12:30 p.m.

Norallah G. Juma, "Development of WWW-Based Course Materials." 2-36 Earth Sciences Building.

RURAL ECONOMY

March 24, 3:15 p.m.

Benoit Laplante, senior economist, World Bank, Washington, DC and adjunct professor, Department of Rural Economy, "Controlling Industrial Pollution: From Theory to Implementation and Back to Theory." 550 General Services Building.

ST JOSEPH'S COLLEGE

April 4, 2:30 p.m.

Timothy Scott, "Footwashing and Christian Witness: Liturgical Praxis as an Invitation to Martyrdom." Faculty Lounge, St Joseph's College.

UNIVERSITY OF ALBERTA CHAPTER SOCIETY OF THE SIGMA XI


March 25, 8:15 p.m.

Norm Dovichi, "The Death of an Enzyme." Presentation is part of Sigma Xi Annual General Meeting, Faculty Club. Information: Nat Rutter or Annette Bell, 492-3085.

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April 4, 7:30 p.m.

Geoffrey Pearson, "India and Canadian Foreign Policy," the third annual "India-Focus" Distinguished Lecture. Business 1-5.

 This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-5825.

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Until April 6

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MUSIC

March 22, 8 p.m.

The University of Alberta Madrigal Singers Concert—Leonard Ratzlaff, conductor. Admission: \$5/adult, \$3/student and senior. Convocation Hall.

April 4, 8 p.m.

The University of Alberta Concert Choir Concert—Debra Cairns, director. Admission: \$5/adult, \$3/student and senior. Convocation Hall.

April 5, 3 p.m.

Northern Alberta Honor Band Concert—Fordyce Pier, director. Convocation Hall.

April 6, 3 p.m.

The University of Alberta Concert Band Concert—William H Street, director. Admission: \$5/adult, \$3/student and senior. Convocation Hall.

April 6, 8 p.m.

The University of Alberta Symphony Orchestra Concert—Norman Nelson, conductor. Admission: \$5/adult, \$3/student and senior. Convocation Hall.

April 7, 8 p.m.

Master of Music Recital—Deborah Armstrong, piano. Convocation Hall.

April 9, noon

Noon-Hour Organ Recital. Convocation Hall.

April 10, 8 p.m.

Master of Music Recital—Lynn Anne Roberts, choral conducting. Convocation Hall.

April 11, 8 p.m.

The University of Alberta Symphonic Wind Ensemble Concert—Fordyce Pier, director. Convocation Hall.

STUDIO THEATRE

March 27 to April 5

"Six Degrees of Separation" by John Guare. Tickets and information: 492-2271. Timms Centre for the Arts.



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MISCELLANEOUS

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From Darwin to Dolly:

Stairway to where?

Are we in danger of losing focus because of the intoxicating "sexiness" of modern reductionist science?

By John B. Dossetor

Where will it end? First, Galileo and Copernicus ... What do you mean Jerusalem is not the centre of the Universe? Come and look at my copy of the medieval *Mappa Mundi* — it shows it!

Then there's Darwin. Are we descended from the same evolutionary forebears that give us orangutans, chimps and the silverback gorilla? It's preposterous, and you say that the differences in DNA are only one to two per cent?

Then there is the DNA code. You mean the same language for coding amino-acids exists throughout the whole of nature, including plants? And bacteria, too...? What is going on...?

Then came Christian Barnard and his affront to normal sensitivities. You mean the heart is just a pump, after all, and not our shared symbol of affection and commitment?

And now there's Dolly. Not that Dolly is a perfect clone. She does not share that small fraction of DNA inherited from the ovum donor, the mitochondrial DNA. Admittedly this is less than one per cent, but it might make a difference. The same would be true for any mammalian clone unless one used an ovum from the mother of the adult animal. There are also those, perhaps meaningless, mutations which have occurred in the genomic DNA during the life of the adult animal—they may not be the same in every cell so the adult cell is different from the embryo DNA of that same sheep. The cloned being's personality will also develop differently because of varied nurturing influences. These, arguably, are more influential than the genes.

Clearly then, we are still some way from the perfect clone. Thank goodness for that. However, perhaps this is hair-splitting. That one successful experiment of 277 tries is a remarkable achievement.

Whatever next?

It makes one reflect on a few aspects of contemporary learning: Does scientific research have a goal? If so, what is it? What is the goal of biological science? Does it share an ultimate goal with medicine and health care? Is there any way to counter the feeling that science and technology are advancing so fast there is little hope of common sense and ethics catching up?

First, one must acknowledge that part of the value of science is its pure quest for new knowledge (not necessarily wisdom)—its innate curiosity. I think we agree that we do not want to stultify that. But in addition, should there not be a goal for science? If there is I would hope that it is to provide increasing opportunities for human beings to flourish, both individually and as diverse societies, by assisting them to reach and enjoy that which makes for fulfilment of our shared human values in meaningful social life. Something like that...

Perhaps this is what J. Robert Oppenheimer, director of the Los Alamos Lab. which developed the atomic bomb in 1945, was groping towards when he wrote, "... the physicists felt a peculiarly intimate responsibility for suggesting, for supporting, and in the end, in large measure, achieving the realization of atomic

weapons, ... [I]n some sort of crude sense which no vulgarity, no humor, no overstatement can quite extinguish, the physicists have known *sin*; and this is a knowledge which they cannot lose ..." [emphasis added].

In general, we aspire to greater equity between persons living in different parts of the world—equity in the sense of greater chances to be fulfilled and to flourish. Is science helping us move towards that goal? I think a case can be made for saying it is, although improved conditions in the developing world also seem to increase the gap. I see some uses for animal cloning towards this goal. But I cannot see any prospect of developing countries being served by human cloning. Especially, if developing countries come to be exploited by a commercial human cloning industry banned in the West.

We also, as humans, aspire to procreation, health and longevity. Doesn't the pursuit of these goals justify most biological research? New reproductive technologies feed the first. Organ transplants feed the second and third. And soon, new organs from animal sources will be feasible using transgenic animals (pigs are the current favorites). Cloning technology will be used to reproduce favoured xenotransplant source animals.

But how about length of days, per se? Will technologies spawned from this latest 'success' help humans live a fuller, longer and more meaningful life?

Here the glitter seems to fade—at least for me. First, if the goal is to live a disease-free life until all organs fail at around 110 or 120 years of age (a simple limiting pre-

sumption), I doubt if it can be achieved using this type of technology.

Prior to, say, 1870 (the age of clysters, cupping, nostrums and bloodletting) many did not survive childhood (and childbirth) and life was short. A few survived to old age.

The period 1870-1930 showed an impressive jump in life span due, largely, to knowledge of bacterial contamination, clean water, better housing, public health and hygiene and the introduction of vaccination and immunizations against common infections.

The period 1930-1990 saw a further longevity jump thanks to antibiotics, a vastly increased understanding of how the body works, the chemistry of its cells

and the mechanisms of disease. Much improved anesthesia transformed surgical capabilities. Molecular biology led to ever increasing insight into cancer processes as well as development of antiviral agents. We also developed better understanding of the contributing role of nutrition and life-style in degenerative processes (in blood vessels, heart and lung, etc.) and to a realization that prevention is the key to longevity.

Can we forecast the main influence on longevity during our current experience, 1990-2050? Will the next leap forward come from applied genetics, new understandings of cell differentiation so that we can grow new biopharmaceuticals (in "pharm-animals") and spare parts *in vitro* or *in vivo*, or from a much fuller understanding of the fact that we are what we eat and what we inhale and that life-long attention to those factors will more greatly influence health and longevity?

Contemporary epidemiology research indicates that the answer to heart disease is not more open-heart surgical facilities, but better nutrition of mothers during and after their pregnancies so they and their offspring are fully nourished,² coupled with diet and exercise throughout life.

Will human life be enhanced more by the follow-up of Dolly and the science she represents or by learning to live in a way that prevents disease in the first place; by learning how better to

cope with the vast inequities dividing societies; and by healing the North/South rifts presently existing between societies of human beings? In short, are we in danger of losing focus because of the intoxicating "sexiness" of modern reductionist science?

I am afraid we are . . . ■

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1. The Open Mind, Simon & Schuster, New York, 1955, p 88

2. Barker, D.J.P. "Fetal Coronary Artery Disease," British Medical Journal 311: pp 171-174, 1995.



Lara Minja

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